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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

<160> 112

<170> PatentIn version 3.2

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 cccacattc cattttaat atatactgtg cttacaaat attataatat gttttaaaat 180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
 ttgaaatata tatttagttt ttaattgtg taggaaaatc aaagccagag ggagtagaaa 300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360

45 agtctacct aattgatga taaaattaca tggaagggat tctgttggc atgaggacct 420

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 15 aaaggggaa ggccccaaa accggggggg gggnaaaaag gtgggttcc cccttttcc 180
 aattccaaa accaatttc aaaaggnaaa ccaacnttc ccaaatggg aaagg 235

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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

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15

ctgtacttga actctaaaac tgttgagaa actcagtgt tactccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

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attccttggg cctaggaacc ctcatcacc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca gggccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttagcggcg accccaacaa caccaggccc tacttttcc aaggncgggg aagcccatgg 180

45 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

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 15 gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

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ataatggaag atagctntga ggatnaacnc tggtnaggg 100

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 15 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180
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 30 ggaagaattg tatgtgggag ttttaatgg tctcattca ttggctataa ctcagttaca 180
 aggagaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240
 35 agagacaaat ttgtcatca gctagtgatc tgccatacaa ggtgttcctt taatatgtgt 300
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ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

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45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaagggggtt aatattcctc 240
 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
 5 tgggcgccag caggggcggc ctccgggcca aaccgaacct caggtcanac ttccaagaaa 360
 agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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aagaaggaaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180
20 ccaaaaaaaaa aatttttaa aaaaattttt ngccccggg ggcattgggg g 231

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30 ggtgctcctg cgtttggact gtgcaggcct ctcctatgct gatgcgtctc cccactcctg 180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc 240

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 15 ctcagactgc aaantgtnat nctgncnnan nntgngact gtcngncng attnnngcn 120
 tгнаaacta ttgctctta tatacacnac caannntgcg aagggcnann nnaccttnc 180
 cantnnnctg gggncccacn nnnngnaact gagagtggat cttgtgtacc tgacnnacca 240
 20 gntntnnagn agggcgctca ctctgattgg tgcacatgg ttacacagtg tgtgcaaaga 300
 ccngnctatc tactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360
 25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420
 aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480
 ntcntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt 540
 30 tgnatagatga nnnngtctc nccctgngg ctnacaaatt ccancacct tggtggcngc 600
 agccnttaag ancactntt ttgggtgcg cnttggatg aattacnaat agnntgtttt 660
 35 gtncaaggc ccttctgna aatatgaana aaagngcnct tagcttttg ngggaactgn 720
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<223> n is a, c, g, or t

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caagtacgcn agcncitgaan ctaaagcaag caagaaaaag 100

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<212> DNA

<213> Human

15 <400> 54

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agagccaagc taaacccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg 120

20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatagc tgggtgtcaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tccccttga atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagattac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aaccc 515

35 <210> 55

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 cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120

40 agcctgcctt cattagacca agacagcaag gtttncctg gtcactagat gaaatt 176

<210> 56
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 45 <212> DNA
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 <223> n is a, c, g, or t

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 ggatttgggg tttagaggta caattgcctt ttatggta gagaaaggtc ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggagg atgctggcag 300
 acattgttat tgcatt 317
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 <211> 209
 <212> DNA
 25 <213> Human

 <400> 57
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 30 ctggactgga cactgtatac ccacatgcaa gatgaagttg gcccttaca tcctatacgc 120
 aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
 taattgggag tgggggctga aacaattcg 209
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 <210> 58
 <211> 262
 <212> DNA
 40 <213> Human

 <400> 58
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 45 acctgtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180
 agttgcttgg cccaaggaag gaggggttga tggtgatca cactgggtccg cctgggtgac 240
 5 agagcgagac tccatctcta at 262
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 <211> 430
 10 <212> DNA
 <213> Human
 <400> 59
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 15 aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc ttggccctt 120
 cccgggggag gggtatccgg ttataaacc ccaagggtat ttcttagca aaatacttaa 180
 20 aaccggccgg ggttttata caaactggga acccactttt gaaaatttt ggcctttga 240
 tctgggatgg gaatatgagt ttatatcat ttcatcttct tttgggcaa aggcccgtt 300
 aagtattccc ccccgggggg cctttacaaa aaggcggtt taaaagctt ttgggcccc 360
 25 ctagggaatt gtttaacac ctaaaaccc ctgcttcct taaagggcg ttcttaatt 420
 tgggggcggc 430
 30 <210> 60
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 35 <400> 60
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 40 tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180
 tgattccgaa tcaccacag acagctcgat caccatacgt atcaccaac atatatact 240
 45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagtgt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaacctgtg tggaatggct aggcaatcat ctggaaaaaa 360

atgaagtga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

45 tttgttaaaa ttgatattt gatataaaa acttcttttg ccagtgttgg tggcacacgc 360

ctttaatccc agcacttagg aggagagggc aggggtggatt tctgaatttg agggcaggct 420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaacagac cagaccagac cagaccagac caaaccaaac 540

caaacagac taaaccaaac caaacagac cagaccagac cagaccagac cagaccagac 600

cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

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20 taatgcgaat atacttctc ttcttttgc atggtcttgc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgctc ttgctgcccc 180

ggacatagga caacttcgct gctcactagt tctaacatat taatgctggc gtaggtggag 240

25 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

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30 <211> 309

<212> DNA

<213> Human

<400> 64

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40 aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

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45 ctgattaga 309

<210> 65
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 <212> DNA
 5 <213> Human

 <400> 65
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 agggatggaa tggactcgaa gggaatggaa tggatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgaatggaa tagactcgaa tggatggaa cgaaattt 278

 <210> 66
 20 <211> 142
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 <400> 66
 25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgtt 60
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 atagctagta aactccccct gt 142
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 <211> 286
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 35 <213> Human

 <400> 67
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 40 aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca tticcttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

<400> 68
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 10 tagaagtcac tatatttata taaaacatgt ggattagata ttttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaat 179

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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 ttttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

<210> 70
 <211> 481
 45 <212> DNA
 <213> Human

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 <223> n is a, c, g, or t

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 10 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 20 tgagatgaca tgaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420
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 25 g 481

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 10 <223> n is a, c, g, or t

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 15 ngacgcgccg tacaggntna attatggan cttacatggn aaaggggcan ctcaatgtcc 120

 cacag 125

 20 <210> 72
 <211> 473
 <212> DNA
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 <222> (151)..(151)
 <223> n is a, c, g, or t
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 atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120
 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaaatgat ataaaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
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 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
 <211> 500
 5 <212> DNA
 <213> Human

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 <223> n is a, c, g, or t

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 aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
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 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

<210> 74
 45 <211> 299
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<213> Human

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<223> n is a, c, g, or t

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10 <221> misc_feature
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<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25

<210> 75
<211> 155
<212> DNA
<213> Human

30

<400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

35

tgagatgaca tgaataatg aaacgaaatt gaaat 155

<210> 76

40 <211> 367
<212> DNA
<213> Human

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35 <221> misc_feature
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cgccatgaaa ttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180

45 tatcggtacg aggaatggat gttagatttc gtagaatagc cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgtttg gggtttattt ttaaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattacaaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccggttaa atagccgtta aatgtttta cccatttcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc tttctcctc 300
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30 ccaataaaaa aaacntttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata 120
 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgagggg caatatatgg ttctgggata attattata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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15 aggaaggaag gaagg 135

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aacttcctca gaaggacaag agacaaagaa gtgggggagg ccttcctatc catagctgag 180
35 agggtttatt cttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccacagct agacagaact tttagattt tgggggggtt aaaaggcctc aagcaaattc 300

40 taaaactttc ttgaacccc ctggcatagg ctcagtttcc ctgact 346

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<400> 85

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

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gtcgagtccc tcttctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttttctaag cgtagcgcgt ctactccaat gttttcgta atccagcccg aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

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 aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca 240
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 gatagcaaag attaccagc ttctattcct cgtcccagag ccgagtaaatt cgaagtttat 360
 20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420
 tataaactta atgtccctt tattctcccg gacgccctt ttaaccatt ctctctatct 480
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 aattaagгна aggnttaaaa aatttaacca angggggggtt taaagggnntt tttttttta 180

 aaaaaaaagg ttaaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240
 45 cttaaccccc ggggttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300

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 40 atgggnaant tnnnnngggg ggggggaaaa ancccnnggg tnannggggg ccnngggntt 180

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 aaancnttt naaanacngn nanaatttn ccnnncggg gaggnngnga nntttttt 300
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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
30 ttttctctta tntgngngcn naacatctgc nngctctgnt annaanaatt ncataccgen 240
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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

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atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

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ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggt 180
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